

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: November 21, 1978

SUBJECT: Evaluation of the Resubmitted Data Of Inhalation LC 50 of Everseal Canvas preservative "TT-P-595" Caswell No.: 253 EPA Reg. No. 39365-R

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TO: Mr. Henry Jacoby (PM-21)

THRU: Reto Engler, Ph.D.  
TOX/HED (TS-769)

Registrant: Everseal Manufacturing Company, Inc.  
475 Broad Ave.  
Ridgefield, N. J. 07657

Recommendations

- (1) This re-submitted inhalation LC 50 study in rats appeared acceptable for registration requirement.
- (2) However, a subacute dermal study of this formulation which was required previously as a condition for final registration has not been submitted yet to this date (see reviews of 1/25/78 by R. B. Jaeger and 8/4/78 by L. Anderson).

I. Substance Identification

1. Chemical name of the active ingredient  
copper 8-quinolinolate
2. Ingredients of the formulation  

<u>Active ingredient</u>	O/O w/w
copper 8-quinolinolate	1.2
<u>Inert ingredients</u>	98.88

II. Use and Application

This product is mildew, water, weather and fire resistant. One part by volume of this concentrated preservative coating shall be thoroughly mixed with an equal volume of a petroleum solvent. Apply to dry fabric with a stiff brush or spray gun using a coarse spray followed by brushing with a solvent, only out-of-doors or in well ventilated place.

III. Review of Re-submitted Toxicological Data

1. Acute Inhalation LC 50 Study of Canvas preservative "TT-p-595" [Lab. No. H-2788 of Wells Labs., Inc.; reported by L. Ferrer and Saul Frances, 6/22/78 and received by EPA of 9/25/78 as a corrected lab report (see letter of 9/18/78 from J.E. Spector of Everseal Manufacturing Company, Inc.)].

A group of 10 rats (5 male and 5 female) inhaled a mist of the test material within a closed chamber of known volume for one hour. The dose levels were 0.2, 0.5, 0.75, 1.0 and 2.0 ml/L/hour. The rats were observed for mortality and toxic signs daily over 14 days after the treatment.

Evaluation: partial dehairing on the rats that inhaled at a level of 2 ml/L/hour was observed. Two out of 10 rats that inhaled 2 ml/L/hr. were dead while all rats that were exposed to other concentrations of test material were survived. Gross autopsy of the two dead animals showed bloody lungs, engorged veins around stomach and intestines, dark spleen and right heart enlargement, while the same autopsy on survivors dosed at 2 ml/L/hr. indicated bloody lungs, dark and enlarged spleens. All remaining survivors sacrificed at termination of the test showed no significant toxic signs. LC 50 was found  $\gt$  2.0 ml/L/hr.

Comment:

The time of death of animals should be noted. Individual body weights and food consumption should be also determined weekly during the 14 days post-treatment. All these records are missing in this report. However, two discrepancies which appeared in the previous Laboratory report have been clarified in this new and corrected laboratory report and in the telephone conversation between Drs. L. Anderson and S. Francis on record (Review of 8/24/78 by L. Anderson and Record of Communication of 9/15/78 by L. Anderson which was signed off by Dr. R. Engler on 10/4/78).

Classification: Core-Minimum

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S-L Chan  
TOX/HED/11/1/78 :lf

B.F.W. 11/22/78